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ABSTRACT

The National Education Longitudinal Study of 1988 (NELS:88), a longitudinal study sponsored by the National Center for Education Statistics, provides trend data about transitions experienced as young people develop, attend school, and embark on careers. The study began with a national sample of about 26,000 eighth graders in 1988 and follows these students at 2-year intervals through high school and further. Findings of the base year are summarized, drawn from the descriptive summary "A Profile of the American Eighth Grader" by A. Hafner and others (1990). Characteristics of sample members, in-school and out-of-school experiences, and aspirations and choice behaviors are described. The paper is divided into three sections: (1) background on the study; (2) cross-sectional findings from the NELS:88 base year, with 24 tables and 16 graphs; and (3) issues for the next wave of data. Appendix 1 describes generating the sample; Appendix 2 gives a chart of key questionnaire items. (SLD)

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FINDINGS FROM THE NELS:88 BASE YEAR STUDENT SURVEY

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THE NATIONAL EDUCATION LONGITUDINAL STUDY OF 1988 (NELS:88): FINDINGS FROM THE BASE YEAR STUDENT SURVEY.

Abstract. NELS:88, a major longitudinal study sponsored by the National Center for Education Statistics, is designed to provide trend data about critical transitions experienced by young people as they develop, attend school, and embark on careers. The study began with a nationally representative sample of eighth graders (and of eighth grade schools) in the spring of 1988, which collected contextual data from their teachers, parents, and school principals as well as cognitive test and questionnaire data from the students themselves. The study will follow sample members at two year intervals through completion of high school and for some years thereafter. This paper presents findings of the base year study, and draws primarily on the NELS:88 Student Survey Descriptive Summary (A Profile of the American Eighth Grader, Hafner, Ingels, Schneider and Stevenson, 1990), an NCES survey report that summarizes the characteristics of the sample members, describes their school and out-ofschool experiences, and reports on their aspiration's and choice behaviors at the point of the critical transition to secondary school. Analysis in the descriptive summary is confined to simple crosstabulations that will, it is hoped, give researchers and policy analysts some feel for the analytic potential of the NELS:88 data, and will provide the wider community of educators and interested citizenry with something of the flavor of this The baseline data will have longitudinal import starting important dataset. with release of the first follow-up data. Although the major research issues addressed by NELS:88 are longitudinal in nature (such as students' academic growth over time and the family, community, school and classroom factors that promote or inhibit such growth; the transition from elementary to secondary school; the process of dropping out of school, as it occurs from eighth grade on, and of re-engagement with schooling at a later date), there is nevertheless much of cross-sectional interest in the base year data. The purpose of this paper is to point to some of the main issues of interest that are identified in the NELS:88 base year descriptive summary.

The paper is divided into the following sections:

- I. Background on NELS:88
 - A. Study goals and overall design
 - B. Components: surveys of students, teachers, parents, principals; language minority (Hispanic, Asian Pacific) supplements
 - C. Sample Design
- II. Cross-sectional findings from the NELS:88 base year
 - A. Highlights
 - B. Selected tables and figures
- III. Longitudinal Postscript: issues for the next wave



I. NELS:88: Background

I. A. Overview: the study design.

This longitudinal study, by beginning with a cross-section of approximately 26,000 1988 eighth graders, following a substantial subsample of these students in 1990 and thereafter, and by freshening* the sample to ensure tenth and twelfth grade nationally representative student samples in 1990 and 1992, will provide a point of comparison with the high school classes of 1980 and 1982, studied by High School and Beyond (HS&B), and the high school class of 1972, studied by the National Longitudinal Study of the Class of 1972 (NLS-72).

The overall cope and longitudinal design of the study offer at least five major benefits:

(1) Longitudinal focus. First, the study provides the basis for within-cohort comparison by following the same individuals over time. NELS:88 will thus provide measures not only of educational attainment but also explanations of the reasons for and consequences of academic success and failure. (Coincidentally, NELS:88 data will permit the most comprehensive and sophisticated assessment to date of the cumulative impact of the recent school reform movement.) Individual and group level change is captured by NELS:88 in particular by its emphasis on the measurement of cognitive growth and the recording of key transitions.

Many if not most of the questions policy makers seek to answer involve some notion of change over time. Although cross-sectional analysis may approximate the study of the process of change by using a number of devices, the risk involved is substantial and the possibility of examining causal relationships is nil. For example, a study may ask respondents who have failed to complete their elementary education when they started to think about or plan on dropping out, but the danger here is that the farther back they are forced to reach into their memories, the less accurate they are likely to be. (For a summary of recent literature on the unreliability and biases of retrospective survey responses, see Pearson, 1989). Even apart from the limitations and distortions of retrospective accounts, however, cross-sectional approaches are not suitable vehicles for measuring individual change nor do they provide a viable basis for causal inference. (While longitudinal studies offer a superior vantage point for addressing questions of why certain phenomena obtain, again see Pearson 1989 for some qualifications of this claim).

(2) Representative national cross-section. The second benefit of the NELS:88 design is that it provides a representative cross-section of eighth graders in the United States, thereby shedding light on the factors at the demographic and environmental levels that affect educational outcomes such as school performance and individual aspirations. Thus—and unlike its predecessor national longitudinal studies, NLS-72 and HS&B, NELS:88 establishes a baseline for measuring the impact of secondary schooling at a point just prior to entry into high school.

^{*}See Appendix 1 for an explanation of sample freshening in NELS:88.



- (3) Transitions of early adolescence. The third advantage of the NELS:88 design is that it begins with early adolescence, a developmental transition period in which major changes in individual attitudes and behaviors take place, and a time point that also marks the transition to secondary schooling. Thus it provides a basis for understanding such areas of concern as the impact of tracking and school and program choice in the middle years on subsequent educational and occupational outcomes, and the interaction between schooling and the crystallization of key attitudes, values and aspirations. While earlier studies such as NLS-72 and HS&B monitored the critical transition from high school completion to the labor force, postsecondary education, and family formation, the singular strength of the NELS:88 design is that it also encompasses the key school transition from eighth grade to high school and associated developmental transitions of early adolescence.
- (4) Trend analyses. The fourth design benefit is that NELS:88 offers the opportunity for the analysis of trends in areas such as academic performance. Cross-cohort comparisons with earlier NCES longitudinal studies will be possible as early as the 1990 wave of data collection.
- (5) Holistic perspective. NELS:88 takes the student as the fundamental unit of analysis, further illuminating the student data by tapping the rich contextual information available from other respondent populations and records sources. NELS:88's major features—the planned integration of school administrator and records, student, parent and teacher studies and the inclusion of supplementary components to support analyses of demographically distinct subgroups such as Hispanics and Asians, stamp the study with an exceptionally comprehensive research design.

The data produced through this design can facilitate the development and evaluation of educational policy at all governmental levels. The NELS:88 data can also inform decision-makers, educational practitioners, and parents about the changes in the operation of the educational system across time, and the effects of various elements of the system on the lives of the individuals who pass through it. Thus the base year and follow-up studies explore a number of areas that define the basic outcome variables of NELS:88—those related to cognitive growth, occupational expectations and achievement, and personal and social development. Information has been gathered as well on numerous independent variables, such as standard demographics, and variables measuring educational support, parent's socioeconomic status, family composition, language use, and home environment. The core of intervening variables encompasses school experiences such as exposure to given curriculum content and structure, assessment and evaluation systems, social relations, school behavior, and participation in extracurricular activities.



I. B. Study Components.

The Student Survey

Students were surveyed in schools in the spring of 1988, completing a questionnaire that inquired into personal and family background, languages spoken and language use patterns in the home, opinions about self (self-esteem and locus of control), aspirations and plans for the future, jobs and chores, perceptions of school climate, schoolwork (including track, course enrollment, grades, time spent in doing homework, decision-making processes undergirding curricular choices), and extracurricular and outside-school activities.

In addition to the student questionnaire, NELS:88 eighth graders completed a series of four tests (in reading, mathematics, social studies [=history/citizenship] and science), that are designed to measure cognitive growth over time. Test items drew on an extensive item pool, that included questions common to earlier longitudinal studies test forms (NLS-72, HS&B) as well as the National Assessment of Education Progress (NAEP), and items constructed specifically for NELS:88. For both mathematics and reading, proficiency levels were defined and were utilized in tabulations that were drawn on both for the Descriptive Summary and this paper. (For an account of the development of the NELS:88 cognitive test battery, see Rock and Pollack, in Ingels et al., 1987; for an account of the psychometric properties of the base year tests, see Rock and Pollack, 1990).

The Parent Survey

One parent of each child was included in the study. Parent data should be used primarily in the analysis of student behaviors and outcomes, and only secondarily as a dataset by itself. Parents completed a self-administered questionnaire that sought information on home background and education support system and the family's interactions with the school.

Teacher and Administrator Surveys

All full— and part—time instructors who were teaching classes in mathematics, science, English/language arts, and social studies to eighth graders in the spring of 1988 were included in the NELS:88 universe of eighth grade teachers. The actual sample was restricted to teachers who provided instruction in the listed subjects to the selected sample of eighth grade students within the sampled schools. Two teachers were sampled for each selected student. The administrative head of each school was also included in the sample. Again, since the student is the unit of analysis, the NELS:88 sample is not a national probability sample of eighth grade teachers, but of selected teachers of a nationally representative sample of eighth graders. The teacher questionnaire gathered contextual data on individual students, classes, and the teacher and school. The school administrator questionnaire provided additional school context data.

Appendix 2 displays key questionnaire items for the student, parent, teacher and school administrator surveys, in relation to selected themes in contemporary educational policy research.



The Asian and Hispanic Supplement

The NELS:88 design consists of a core sample, plus a supplementary sample of students (and parents and teachers) sponsored by the Office of Bilingual Education and Minority Language Affairs (OBEMLA). The OBEMLA supplement includes additional students of Hispanic and Asian descent beyond the numbers selected for the core study. This oversample of Hispanic and Asian students supplied analytically sufficient numbers of these groups and their principal subgroups (for example, Hispanic Americans of Mexican, Puerto Rican, Cuban, and other Hispanic descent; Asian students of Chinese, Japanese, Filipino, Korean or Southeast Asian descent) and statuses (for example, recent immigrants, versus Asians and Hispanics long established in the United States; bilingual "language minority" students, and students with moderately limited English proficiency, as well as Asian and Hispanic English monolinguals). Since the NELS:88 cognitive tests and questionnaires were available only in English, students with no or with severely limited English proficiency were therefore excluded from the sample. This exclusion qualifies the representativeness of the NELS:88 Hispanic and Asian student samples which offers coverage only of those eighth grade Asian and Hispanic Americans who are proficient in English. However, in the NELS:88 first follow-up two measures will be instituted that will take into account these special populations. A Spanish language version of the student questionnaire will be prepared, and students entering the sample through the freshening process, when proficient in Spanish but not in English, will be included in the sample and given the Spanish-language version of the In addition, a special follow-back study of the base year questionnaire. excluded students (including all students ineligible for reasons of a language barrier to participation) will investigate the status (whether in-school or out-of-school) of all base year excluded students two years later, and draw in students whose ineligibility status has changed (for example, those who in the intervening period have gained sufficient proficiency in English to complete at least the NELS:88 first follow-up questionnaire, or who can complete the instrument in its Spanish translation).

I. C. <u>Sample Design</u>*

Selection of Schools and Students

The NELS:88 Base Year sample is representative of eligible eighth grade schools and students in the fifty states and the District of Columbia. NELS:88 students were sampled through a two-stage process, modelled after that used for the two prior NCES longitudinal surveys, NLS-72 and HS&B.

The first stage involved stratified sampling of over 1,000 public and private schools from a universe of approximately 40,000 schools containing eighth grade students. Stratification is by administrative control, with an oversample of Catholic and other private schools; and by geography, permitting comparisons among the nine Census divisions (or, on the public use tape, four Census regions only). The sample was drawn with probabilities proportionate to a school's eighth grade enrollment.

The second stage included random selection of approximately 26 (24 core, and, on average, 2.2 oversampled Hispanic and Asian supplemental) students per

^{*}A more detailed account of the NEIS:88 sample design can be found in the forthcoming NCES publication, <u>NELS:88 Base Year Sample Design Report</u> (Spencer et al., 1990), while a description of the NELS:88 data files is to be found in the four <u>NELS:88 Base Year User's Manuals</u> (Ingels et al., 1990)



school. However, owing to the presence of a number of schools with small eighth grades, the average sample size is approximately 25 students. Also, sample size per school is somewhat more variable than in the NELS:88 base year than in the 1980 round of High School and Beyond, owing to the uneven impact of the Hispanic and Asian oversampling. (For example, schools with few or no Hispanics may have had zero supplemental students thus a sample size of 24, while large schools with extremely high proportions of Asians or Hispanics or both may have had ten or more Asian and Hispanic students added to the base of 24. In contrast, the HS&B design assumed that Mexican-Americans and Puerto Rican Hispanics would enter the sample at a rate sufficient for snalysis purposes through normal means, and supplemented their numbers with schools in which such less common Hispanic subgroups as Cubans were highly clustered.) Results of the HS&B and NELS:88 oversampling of Hispanic are compared below, as well as proportions of various Asian subgroups (Asians were not oversampled in HS&B).

NELS:88 Base Year vs. High School & Beyond Base Year (so.Cohort) Unweighted Hispanic Subgroups as Proportions of the Total Sample

<u>NELS:88</u> (1988)		HS&B	(1980)
Mexican origin:	7.9%	Mexican origin:	7.2%
Puerto Rican:	1.5	Puerto Rican:	1.4
Other:	2.8	Other:	2.5
Cuban:	•6	Cuban:	1.1
Total Hispanic	12.8		12.2

NELS:88 Base Year vs. High School & Beyond Base Year (So.Cohort) Unweighted Asian Subgroups as Proportions of the Total Sample

	HS&B	So: 80		NELS:88
Chinese	.4%	(106)	1.3%	(313)
Filipino	.4	(103)	1.2	(290)
Indian, Pakistani/				,
Other S.Asian	•6	(151)	.5	(127)
Japanese	•3	(86)	.4	(95)
Korean	•2	(45)	•8	(191)
Vietnamese/SE Asian	.1	(24)	1.0	(242)
Pacific Islander	•0	(12)	.4	(10.1)
Middle Eastern and				\ = = /
West Asian			.3	(80)
Other Asian	.1	(18)	.4	(92)
Total %	2.1		6.1	
(Total Asian N)		(545)		(1531)
Total N, Pacific Basin Asians	376		1,232	
Total Sample Size	27,118		24,599	

Once students were selected, the NELS:88 sample design called for one parent to be surveyed for each selected student (including the oversampled



Asians and Hispanics), and two teachers in designated subject areas. Follow-up surveys are planned for 1990 and 1992, when most of the initial cohort will be in the tenth (1990) and twelfth (1992) grades, 1994, and for some period thereafter. Students who drop out of school will also be surveyed.

If one important respect in which the NELS:88 sample offers an opportunity that HS&B did not is the more ample representation of Asian subgroups, another respect in which the NELS:88 sample improves on that of HS&B is in the better representation accorded students in non-Catholic private schools. The NELS:88 and HS&B 1980 school samples are compared below.

The NELS:88 and HS&B School Samples

	HS&B	NELS:88
PUBLIC	893	815
CATHOLIC	84	104
PRIVATE, NON-CATHOLIC	38	133
TOTAL	1,015	1,052



II. Cross-sectional findings: a descriptive summary.

The findings reported below draw selectively on Hafner et al., 1990, which reports Standard Errors and sample sizes for all tables, and includes complete methodological and technical notes. All tables were based on weighted data. Summary highlights are reported in II-A under five rubrics:

- 1. NELS:88 Eighth Graders: Their Statistical Profile
- 2. Their Mathematics and Reading Performance
- 3. At-Risk and Disadvantaged Issues
- 4. Their Perceptions of School/School Climate
- 5. Transition to High School: their aspirations and choices

Graphs and tables are featured in II-B.

II-A. Highlights.

- 1. Statistical profile: characteristics of sample members
 (in weighted percentages)
 - * "l percent are white
 - 13 percent are black
 - 10 percent are Hispanic
 - 4 percent are Asian/Pacific Islander
 - 1 percent are American Indian/Alaskan Native

(Note: Hispanics and Asians were oversampled by design. The unweighted proportion of Hispanics in the base year sample was nearly 13 percent, with 6.2 percent sian. Only non-Hispanic blacks are reported under "black"; Hispanic blacks are reported under "Hispanic". The NELS:88 datafiles also classify students by Asian and Hispanic subgroup-for example, Chinese, Korean, Filipino, Japanese etc.; Mexican-American, Cuban, Puerto Rican, etc.)

* Some 2.3 percent of the students are considered to be limited-English-proficient

(Note: non-proficient [NEP] and severely limited English proficient [LEP] students were excluded from the sample owing to inability to complete the survey forms in English; students less severely limited in their English language proficiency [though LEP] were included. Just over half of the NEP/LEP population in the sampled schools was included and just under half excluded from the base year sample.

* The modal age was fourteen years; however, about a third became 15 years old or older in 1988



- * Approximately 88 percent of students are enrolled in public schools;
 - 8 percent are enrolled in Catholic schools; and
 - 5 percent in non-Catholic private schools.

(Note: private schools were oversampled in the NELS:88 Base Year. The unweighted percentage of public school attendees in NELS:88 was 79 percent; Catholic, 10.6 percent; and non-Catholic private, 10.5 percent).

- * Three quarters of the eighth graders are enrolled in middle schools or junior high schools
- * Overall, 18 percent reported that they had repeated at least one grade
- * NELS:88 eighth graders spent four times as many hours watching television as doing homework (21.2 hours per week in TV watching, 5.5 hours doing homework)
- * NELS:88 eighth graders typically spend only two hours per week on reading outside of school

2. Mathematics and Reading Performance

Mathematics. Some four fifths of sample members had reached at least the "basic" level in mathematics (addition, subtraction, multiplication, and division); the remaining fifth are unable to perform such everyday arithmetical tasks. Approximately 40 percent of students demonstrated proficiency at the intermediate mathematics level or above. (The intermediate level is associated with knowledge of decimals, fractions and percents—major topics in the middle school/junior high school mathematics curriculum.)

Some notable race/ethnicity differences in mathematics proficiency (not controlled for differences in socioeconomic status) include the following:

- * About 30 percent of Hispanics, blacks, and American Indians are not proficient at the basic level;
- * Only about a quarter of Hispanics and blacks demonstrate proficiency at the intermediate level or above (knowledge of decimals, fractions, and percents);
- * Compared with a norm of 19 percent overall, approximately one third of Asian students demonstrated proficiency at the advanced level (= ability to perform simple problem-solving or to evidence conceptual understanding).

Reading. About 86 percent of NELS:88 eighth graders show basic reading proficiency (ability to reproduce detail or recapitulate the author's main thought). Fourteen percent of students overall are unable to perform such basic reading comprehension tasks.



3. At-Risk and Disadvantaged Issues.

While some students who are "at risk" succeed and some students who are "not at risk" fail, a number of factors have been identified with the prospect of lowered probabilities of educational success. Although there are many candidates for "at risk" status and many of these factors may be empirically highly correlated or conceptually interrelated, six factors that may be extracted from the base year dataset seem particularly good candidates for providing "at risk" indicators. The predictive utility of each of these factors, and of their impact in combination, may of course be assessed in future rounds as longitudinal outcome data becomes available. Also in future rounds, the relationship between "indicators" and causative factors may more be more fully explored. Those factors—and the weighted percentage of NELS:88 sample members who fall under each—appear below:

- * a. Single parent family: 22 percent
 - b. Annual income less than \$15,000: 21 percent
 - c. Home alone > 3 hours per day: 14 percent
 - d. Both parents lack a high school diploma: 11 percent
 - e. Has a sibling who dropped out: 10 percent
 - f. LEP status: 2 percent
- * Overall, a little over half the students have no risk factors, a quarter have one risk factor, and a fifth have two or more risk factors
- * About one quarter of eighth graders report being home alone on school days, for two or more hours, without an adult present:
 - 13 percent report they are never home alone;
 - 32 percent report they are home alone less than one hour/day
 - 28 percent report one to two hours home alone
 - 13 percent report two to three hours alone
- * Students with two or more risk factors are twice as likely as those with no risk factors to be in the lowest grades quartile (38% vs. 18%) and lowest test quartile (44% vs. 16%)



* Students with two or more risk factors are six times as likely as those with no risk factors to expect not to graduate from high school (4% vs. 0.6%).

If, unsurprisingly, the NELS:88 data show strong associations between multiple risk factors and low performance on outcome measures, as well as lowered expectations for those at risk, it should also be noted that substantial numbers of students with no risk factors fall in the lowest grade and test quartiles, and that the proportion of those with two or more risk factors who do not expect to graduate from high school is, at four percent, quite strikingly (and probably unrealistically) low.

4. Perceptions of school and school climate

Over two chirds of the NELS:88 eighth graders report a positive school experience. They report feeling safe, and feel that the teaching in their schools is good.

- * 88 percent report that they feel safe at school
- * 80 percent report that the teaching is good
- * 75 percent report that teachers are interested in students
- * 69 percent report that discipline is fair
- * 69 percent report that there is genuine school spirit
- * 68 percent report that teachers listen to them
- * 67 percent report that students and teachers get along
- * 63 percent report that teachers praise their efforts

Nevertheless,

- * Overall, 10 percent report that someone has offered to sell them drugs at school
- * Hispanics and American Indians are more likely than others to report someone offered to sell them drugs at school (American Indians: 16%; Hispanics: 14%; vs. whites: 10%, blacks: 8%, and Asians: 5%.)
- * Blacks, and American Indians, are twice as likely as whites (18% vs. 9.9%) to report that they don't feel safe at school.

5. The future: the transition to high school-aspirations and choices.

Aithough a majority of the NELS:88 eighth graders have high educational and occupational aspirations, many students are not planning to enter secondary school programs that will maximize their likelihood of achieving their high goals. In addition, while eighth grade represents a significant transition point at which students and their families must make a number of critical educational decisions, many NELS:88 sample members report little discussion



with pareres, teachers, guidance personnel or others, of the critical choices that face them.

- * Although two thirds of the students plan to complete college or obtain postgraduate credentials, only one third plan to enroll in a college preparatory program in high school
- * Of students specifically planning to take a college preparatory program, only 47 percent are enrolled in algebra or honors mathematics
- * A quarter of the sample members do not know which high school program they will enter
- * When asked with whom they have discussed the r prospective high school program,
 - 26 percent have never discussed program choices with their fathers
 - 54 percent have never discussed program choices with their teachers
 - 64 percent have never discussed program choices with guidance counselors



II-B. Figures and Tables.

Findings are reported under four main headings: (1) the characteristics of the individual sample members, (2) their school experiences, (3) their out-of-school activities, and (4) their aspirations and expectations for the future. Figures and tables are drawn from Hafner et al., 1990, and follow the numbering employed in the base year descriptive summary. (Gaps in the numbering scheme reflect the fact that not all tables in the base year descriptive summary have been reproduced in this paper.)

Profile of eighth praders: characteristics of the MELS:88 sample members.

- Table 1.1: Percentage of eighth graders from families with different levels of education and affluence, by selected background characteristics
- Table 1.2: Percentage of eighth graders from different types of household...
- Figure 1.1: Percentage of eighth graders with low family income by family type
- Table 1.3: Percentage of eighth graders repeating one or more grades in school (by age and characteristics)
- Figure 1.2: Percentage of eighth graders who repeated at least one grade, by year of birth
- Table 1.4: Percentage of eighth graders with one or more risk factors
- Table i.5: Percentage of eighth graders with various risk factors
- Figure 1.3: Percentage of eighth graders enrolled in public and private schools
- Figure 1.4: Percentage of eighth graders in schools with various grade spans
- Figure 1.5: Percentage of NELS:88 eighth graders with various risk factors



Table 1.1.--Percentage of 8th graders from families with different levels of education and affluence, by selected background characteristics

, ,		PARENT	EDUCATION	¥		FAMILY INCOME			
ackground haracteristics	LESS THAN HIGH SCHOOL	HIGH SCHOOL GRADUATE	SOME COLLEGE	COLLEGE GRADUATE	GRADUATE DEGREE	LESS THAN \$15,000	\$15,000-50,000	GREATER THAN	
OTAL.	10.5	20.9	42.1	14.2	12.3	21.1	57.5	21.4	
EX									
Hale	10.1	21.2	41.5	14.6	12.6	20.0	58.1	21.9	
Female	11.0	20.6	42.6	13.9	11.9	22.2	56.9	20.9	
ACE/ETHNICITY									
Asian/Pacific Islander	9.1	12.8	33.0	23.3	21.7	18.3	51.1	30.6	
Hispanic	33.3	18.0	36.2	6.5	5.9	37.5	53.0	9.5	
Black	15.8	23.8	46.8	7.5	6.2	47.0	43.9	9.1	
White	6.2	21.2	42.3	16.3	14.0	14.1	60.9	25.1	
American Indian/ Alaskan Native	14.7	23.7	45.2	10.6	5.8	41.8	49.2	9.0	
EST QUARTILE									
Lowest quartile	21.4	27.3	40.7	7.0	3.6	37.3	53.0	9.8	
25-49%	11.7	24.2	46.5	11.1	6.5	25.3	59.0	15.8	
50-75%	6.5	20.7	45.8	15.6	11.5	15.0	62.3	22.7	
Highest quartile	2.1	11.1	36.0	23.1	27.7	7.5	55.4	37.1	
ANGUAGE PROFICIENCY									
Limited English	38.9	21.1	28.5	6.4	5.1	49.3	44.2	6.5	
Non-Limited English	9.9	20.9	42.4	14.4	12.4	20.5	57.3	21.7	
AMILY COMPOSITION									
Mother & father	8.7	19.4	40.1	16.5	15.4	11.8	60.8	27.4	
Mother & male guardian	9.5	22.5	47.6	10.9	7.5	23.5	59.2	17.4	
Father & female guardia		21.0	47.6	14.8	9.1	13.5	62.3	24.2	
#other only	15.3	25.7	44.6	9.2	5.3	53.4	42.8	3.8	
father only	11.5	21.4	43.4	12.6	11.2	20.7	64.8	14.5	
Other relative or nonrelative	24.7	20.3	38.8	9.6	6.5	43.0	47.3	9.7	
RBANICITY									
Urban	12.5	19.0	41.7	15.0	11.9	26.9	54.1	19.1	
Suburban	8.4	18.8	41.4	16.0	15.4	14.5	56.9	28.7	
Eural	11.9	25.4	43.3	11.4	8.3	25.8	60.8	13.4	



Table 1.2.--Percentage of 8th graders from different types of households, by selected background characteristics

· · · · · · ·			THO PARENT			SINGLE PARENT	
Student Characteristics	SINGLE PARENT HOUSEHOLD	MOTHER & FATHER IN HOUSEHOLD	MOTHER & GUARDIAN HOUSEHOLD	FATHER & GUARDIAN HOUSEHOLD	MOTHER/FEMALE GUARDIAM ONLY IN HOUSEHOLD	FATHER/MALE GUARDIAN ONLY IN FOUSEHOLD	OTHER RELATIV OR NON-RELATI ONLY IN HOUSEH
TOTAL	22.3	63.6	11.5	2.6	16.5	2.6	3.2
SEX	22.0	64.5	10.6	2.9	15.7	3.0	3.3
Hale Female	22.0 22.5	62.8	12.5	2.2	17.2	2.2	3.1
RACE/ETHNICITY							
Asian and							
Pacific Islander	14.3	78.4	5.4	1.9	8.3	2.4	3.6
Hispanic	23.4	63.5	11.2	1.9	17.7	2.2	3.5
Black	46.5	38.4	13.3	1.9	36.1	2.1	8.3
White	17.7	67.9	11.6	2.9	12.9	2.7	2.1
American Indian and	••••						
Hative Alaskan	31.1	55.6	11.8	1.5	21.1	3.6	6.4
SES QUARTILE							5.9
Lowest Quartile	34.5	50.3	12.9	2.3	26.0	2.8	
£5-49%	22.6	61.3	13,.0	3.0	16.9	2.7	2.9
50-75%	19.4	65.2	12.5	2.3	14.5	2.5	2.4
Highest Quartile	12.6	77.6	7.7	2.2	8.5	2.3	1.7
PARENT EDUCATION							7 6
Less Than high school	34.0	53.3	10.7	2.1	23.7	2.8	7.5
High School Graduate	25.6	59.3	12.5	2.6	20.0	2.6	3.1
Some college	22.6	8.03	13.5	3.0	17.2	2.6	2.9
College graduate	14.8	73.9	8.8	2.5	10.4	2.3	2.1
MA degree/equivalent	11.8	80.4	6.2	1.6	7.6	2.2	1.9
PhD Degree/equivalent	9.4	79.4	8.7	2.6	5.5	2.5	1.4



Table 1.2. -- Percentage of 8th graders from different types of households, by selected background characteristics (continued)

			THO PARENT		j _	SIKGLE PARENT	
Student Characteristics	SINGLE PARENT HOUSEHOLD	MOTHER & FATHER IN HOUSENCED	MOTHER & GUARDIAN HOUSEHOLD	FATHER & GUARDIAN HOUSEHOLD	MOTHER/FEMALE GUARDIAN ONLY IN HOUSEHOLD	FATHER/MALE GUARDIAN ONLY IN HOUSEHOLD	OTHER RELATIVE OR NON-RELATIVE OHLY IN HOUSEHOLD
TOTAL	22.3	63.6	11.5	2.6	16.5	2.6	3.2
LANGUAGE PROFICIENCY Limited English Non-Limited English	31.1 22.0	56.6 64.1	9.7 11.5	2.5 2.5	23.0 16.2	2.6 2.6	5.5 3.1
TEST QUARTILE Lowest Quartile 25-49% 5D-75% Nighest Quartile	30.0 23.8 19.8 15.0	54.7 60.1 65.9 73.8	12.9 12.9 11.2 9.4	2.6 3.1 3.0 1.8	21.4 17.5 14.8 11.6	3.3 2.4 2.5 2.1	5.2 3.9 2.5 1.3
URBANICITY Urben Swurben Rural	29.4 19.5 20.5	56.8 66.3 65.3	11.6 11.6 11.4	2.1 2.7 2.8	22.7 14.1 14.7	2.6 2.8 2.3	4.1 2.5 3.5

This column is the sum of columns 5, 6 and 7 (mother only, father only, and other relative or non-relative). Mother relative or non-relative or non-relative group is included in the single parent household category, even through there is no parent in the home, and it may include 2 people (e.g., grandparents).



Figure 1.1 Percentage of Eighth Graders with Low Family Incomes (less than \$15K) by Family Type

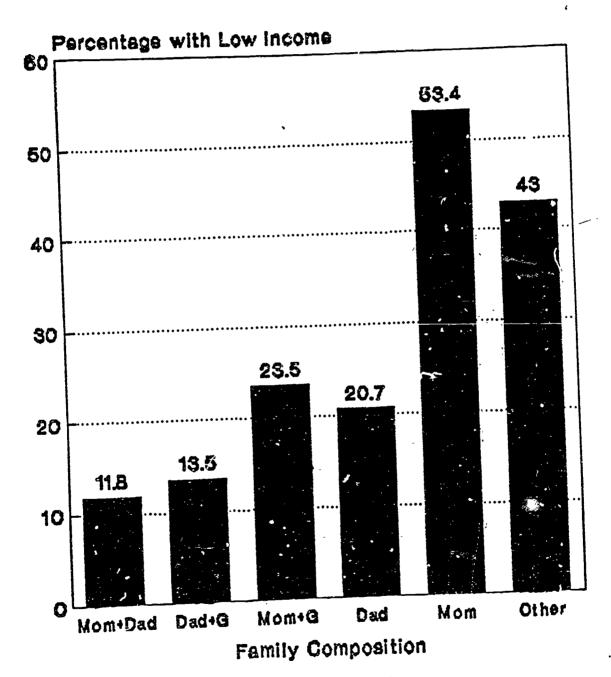




Table 1.3. -- Percentage of those 8th graders who report repeating one or more grades in school, by age and selected background characteristics

Background Characteristics	REPEATED AT LEAST ONE GRADE 1	REPEATED EXACTLY ONE GRADE ²	REPEATED 2 OR MORE GRADES	REPEAT K'DRTN	REPEAT 1ST GR	REPEAT 2HD GR	REPEAT 3RD GK	REPEAT 4TH GR	REPEAT 5TH GR	REPEAT 6TH GR	REPEAT 7TH GR	REPEAT 8TH GR
OTAL	17.7	87.5	12.5	12.9	25.8	17.1	13.2	9.3	8.5	3.7	11.7	9.4
AGE			•	22.5	25.5	16.1	15.9	10.4	12.2	13.3	13.3	13.6
under 15	1.0	92.6	7.4		25.7	16.4	11.9	7.8	6.6	. 6.2	7.9	7.5
15	43.2	97.8	2.2	14.5		18.6	16.2	13.2	13.4	15.4	21.6	13.8
16 or more	87.3	58.8	41.2	6.9	26.2	10.0	10.2	13.6				
SEX				4= 4	24.5	14.4	13.0	10.0	9.0	9.9	12.9	9.8
Hale	21.3	86.8	13.3	13.6	24.2	16.6		8.2	8.0	6.9	10.0	8.8
Female	14.2	88.7	11.3	11.8	28.2	17.9	13.6	0.2	0.0	0.7		
RACE/ETHNICITY												
Asian and					40.0	22.7	12.7	7.5	8.5	5.8	4.1	13.0
Pacific Islander	11.5	92.6	7.4	17.2	19.8	22.7	18.1	13.3	10.6	10.7	10.8	10.9
Hispanic	22.6	84.8	15.2	9.1	25.4	14.2		11.7	12.2	11.6	12.4	10.1
Black	26.1	86.3	13.7	5.1	20.7	18.5	15.0	7.4	6.9	7.6	11.6	8.6
White	15.6	88.5	11.5	15.8	27.7	16.5	11.6	7.4	0.7	7.0		
American Indian And					_			47 /	13.8	6.7	15.1	12.1
Hative Alaskan	28.8	86.8	13.2	16.3	21.3	19.1	9.8	17.4	13.0	0.7	13.1	
SES QUARTILE						40.0	4/ 7	9.9	10.3	9.9	13.7	
Low 25%	31.3	82.3	17.7	10.1	27.1	18.0	14.3	9.9	8.0	8.0	10.9	ن ہے
25-49%	19.1	69.0	10.9	11.9	27.3	17.0	13.9		6.8	8.0	10.4	8.7
50-75%	13.4	92.2	7.8	15.3	23.5	16.9	11.3	9.3	6.3	7.1	8.3	7.5
High 25%	8.2	96.2	3.8	21.7	21.3	14.5	10.7	7.4	0.3	***	U.J	• • •
GRADEC						4= =	42.4	10.6	9.6	9.6	14.6	12.5
Low 25%	33.6	83.3	16.7	. 10.8	25.8	15.8	12.6		8.3	8.7	9.0	7.9
25-49%	21.3	91.2	8.8	13.4	24.1	17.9	15.0	7.6		7.5	10.6	5.3
50-75X	13.1	90.1	9.9	12.9	27.4	17.9	12.1	10.2	7.8	6.3	8.1	4.6
High 25%	5.7	92.7	7.3	21.8	29.6	17.5	13.9	5.3	6.6	0.3	0.1	~,0

¹ Column 1 was calculated as the percentage of all children (entire population).

²Columns 2-12 were calculated as percentage of children who repeated at least one grade (18% of population), and are not based on all children.

Table 1.3.--Percentage of those 8th gratins who report repeating one or more grades in school, by age and selected background characteristics (continued)

Background Characteristics	REPEATED AT LEAS! UNE GRADE	REPEATED EXACTLY ONE GRADE ²	REPEATER 2 OR HORE GRADES	REPEAT X'DRTH	REPEAT 1ST GR	REPEAT 2ND GR	REPEAT 3RD GR	REPEAT 4th GR	REPEAT 5TH GR	REPEAT 6TH GR	REPEAT 71H GR	REPEAT 8TH GR
TOTAL	17.7	87.5	12.5	12.9	25.8	17.1	13.2	9.3	8.6	8.7	11.7	9.4
LANGUAGE PROFICIENCY											16.1	17.2
Limited English	29.7	80.1	19.9	12.7	25.2	22.3	15.4	13.5	9.5	11.3		9.0
Non-Limited English	17.4	87.9	12.1	13.0	25.9	16.9	13.2	9.2	8.6	8.6	11.5	7.0
PARENT EDUCATION						*			44.5	40.7	14.3	8.9
Less Than High School	35.0	80.3	19.7	8.4	27.6	19.3	14.9	9.9	10.9	10.7		11.8
High School Graduate	21.8	87.9	12.1	11.9	27.1	15.5	12.7	8.3	8.8	7.1	12.4	8.7
Some college	17.4	88.2	11.9	13.7	25.9	17.4	13.6	9.8	7.9	9.2	11.0	
College graduate	9.6	95.3	4.7	18.3	20.2	16.9	11.9	10.1	6.2	7.5	8.0	7.0
HA degree/equivalent	6.9	96.8	3.2	26.7	19.3	18.7	9.4	6.4	6.8	4.7	8.2	3.0
PhD. degree/eqivalent	t 7.4	98.2	1.8	21.0	27.4	10.1	5.6	8.1	6.1	8.3	5.4	12.4
FAMILY COMPOSITION												
Mother & father	14.1	88.8	11.2	14.6	27.2	17.0	13.8	8.9	8.0	7.8	9.3	8.6
Mother & guardian	22.7	88.3	11.7	۸.01	26.2	14.7	13.0	9.1	7.4	8.6	15.2	10.3
Father & guardian	23.9	83.2	16.8	15.0	27.6	16.7	12.8	6.2	8.0	7.9	15.5	9.4
Hother only	23.5	85.8	14.2	10.5	23.0	18.9	12.6	10.4	9.6	9.6	12.1	10.2
Father only	23.7	90.9	9.1	15.1	17.5	12.0	8.6	7.4	9.1	14.4	19.8	5.9
Other relative or												
non-relative	31.5	81.3	16.7	10.7	22.8	20.4	13.1	11 3	14.2	13.5	16.7	12.7
SCHOOL SECTOR											40.0	
Public	18.8	87.1	12.9	12.5	25.9	17.2	13.1	9.3	8.6	8.7	12.0	9.7
Catholic	9.7	93.6	6.4	13.3	26.3	16.7	14.6	8.4	11.2	10.5	7.2	1.9
Independent	11.5	96.6	3.4	28.6	13.9	12.4	13.3	7.9	6.5	10.0	10.6	10.8
Other Private	9.4	90.8	9.2	27.0	22.4	18.0	14.3	10.7	2.9	7.7	9.6	10.3

Column. 1 was calculated as the percentage of all children (entire population).

Columns 2-12 were calculated as percentage of children who repeated at least one grade (18% of population), and are not based on all children.



Figure 1.2. Percent of Eighth Graders Who Repeated At Least One Grade, by Year of Birth

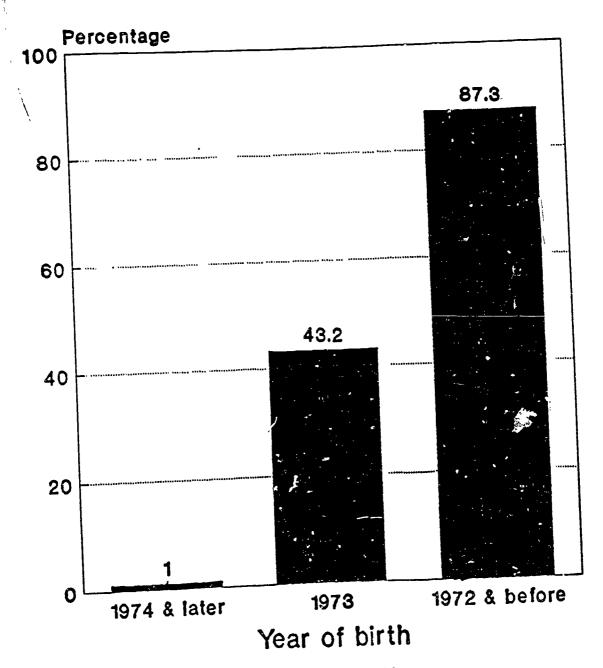




Table 1.4.--Percentage of eighth graders with one or more risk factors*, by selected background characteristics

Background	No Risk	One Risk	Two or More Risk
Characteristics	Factors	Factor	Factors
TOTAL	53.3	26.3	20.4
SEX			
Kale	53.2	27.0	19.7
Female	53.4	25.5	21.1
RACE/ETHNICITY			
Asian/Pacific Islander	57.5	27.3	15.2
Hispanic	32.0	31.5	36.6
Black	28.4	30.7	40.9
Shite	ō1.5	24.5	14.0
American Indian/			
Alaskan Native	35.3	33.2	31.5

^{*} Risk factors include single parent family, low parent education, limited English proficiency, low family income, sibling dropout, and home alone more than 3 hours on weekdays.



Table 1.5.--Percentage of eighth graders with various risk factors, by selected background characteristics

Background Characteristics	Parent is Single	Parents Have No H.S. Diploma	Limited English Profi- ciency	Income Less Than \$15,000	Has a Sibling Who Dropped Out	Home Alone More Than 3 Krs.
TOTAL	22.3	10.5	2.3	21.3	10.0	13.6
SEX						
Male	22.0	10.1	2.4	20.0	10.3	14.3
Female	22.5	11.0	2.2	72.2	9.8	13.0
RACE/ETHNICITY						
Asian/Pacific						
Islander	14.2	8.8	7.1	17.8	6.1	15.9
Hispanic	23.4	33.4	8.8	37.5	16.0	16.3
Black	45.5	15.8	1.6	47.0	13.0	19.5
White	17.7	6.2	0.8	14.1	8.3	12.0
American Indian	****	0.2	****			
& Native Alaskan	31.1	13.4	8.6	40.1	15.1	18.6

¹ Neither of the student's parents have a high school diploma.



Figure 1.3 Percentage of Eighth Graders Enrolled in Public and Private Schools

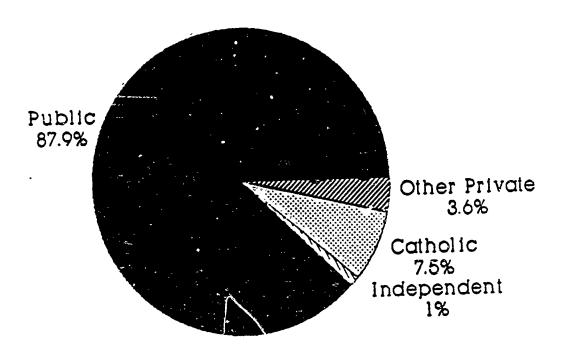




Figure 1.4 Percentage of Eighth Graders in Schools with Various Grade Spans

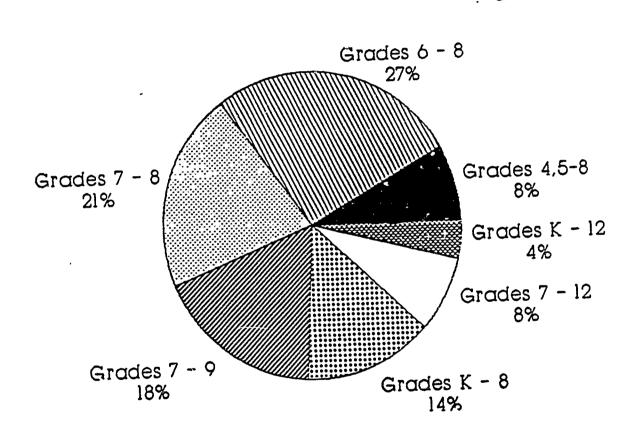
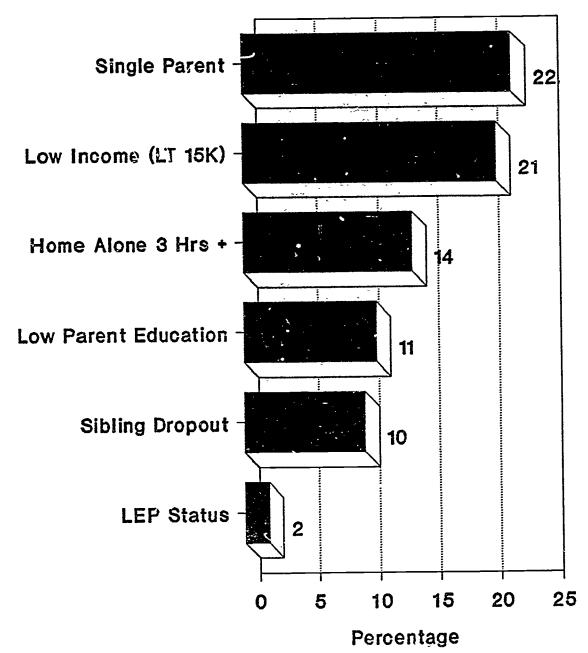




Figure 1.5 Percentage of Eighth Graders with Various Risk Factors

Risk Factor





- 2. Their school experiences: achievement; perceptions of their school environment.
- Figure 2.1: Percentage of NELS:88 eight graders proficient at each mathematics level .
- Figure 2.2: Percentage of NELS:88 eighth graders proficient at each mathematics level by race/Hispanic ethnicity
- Figure 2.3: Percentage of eighth graders proficient at each reading level
- Figure 2.4: Percentage of NELS:88 eighth graders proficient at each reading level by race/Hispanic ethnicity
- Table 2.8: Percentage of eighth graders agreeing or strongly agreeing with various statements about their schools, by selected background characteristics
- Figure 2.5: Percentage of NELS:88 eighth graders in low and high SES groups who are proficient in advanced mathematics, by race
- Figure 2.6: Percentage of eighth graders in low and high SES groups who fail to show basic reading skills, by race
- Table 2.9: Percentage of eighth graders reporting various safety-related occurrences in their school, by selected background characteristics



Figure 2.1 Percentage of All Students Proficient at Each Mathematics Level

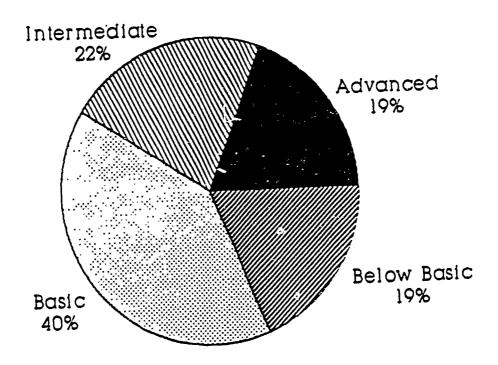




Figure 2.2 Percentage of Eighth Graders Proficient at Each Mathematics Level, by Race

Race/Ethnicity

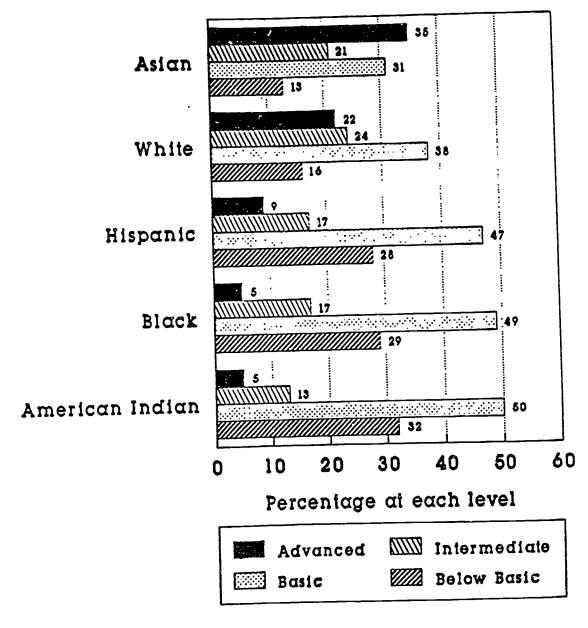




Figure 2.3 Percentage of All Students
Proficient at Each Reading Level

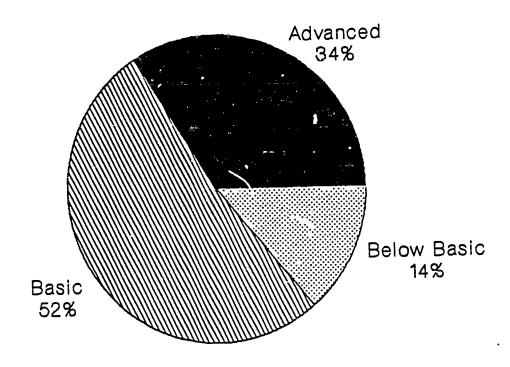




Fig. 2.4 Percentage of Eighth Graders
Proficient at Each Reading Level,
by Language Spoken

Language Spoken

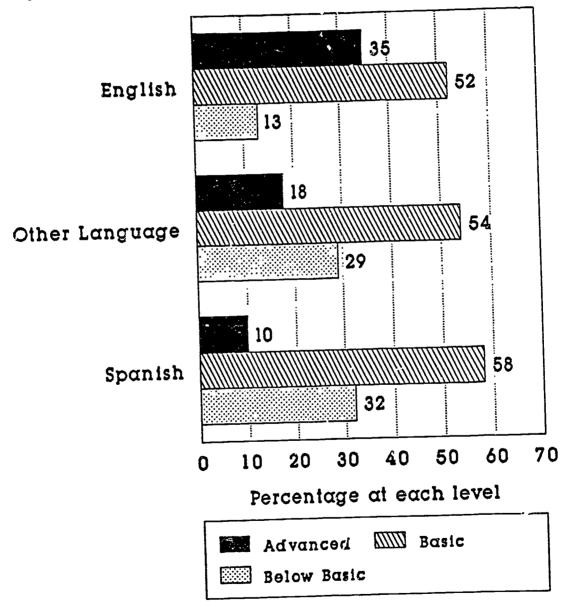




Table 2.8.--Percentage of eighth graders agreeing or strongly agreeing with various statements about their schools, by selected background characteristics

• •		Stat	ements About	Schools			
Background Characteristics	Students & Teachers Get Along	There is Real School Spirit	Discipline is Fair	The Teaching is Good	Teachers are Interested in Students	Teachers Praise my Effort	Teachers Really Listen to me
TOTAL	67.1	68.6	69.1	80.2	<i>7</i> 5.2	63.3	68.4
SEX							-
Male	67.6	67.2	67.3	78.9	74.9	63.0	66.9
Female	66.5	69.9	70.9	81.5	75.6	63.5	69.9
RACE/ETHNICITY							
Asian and							
Pacific Islande	er 73.0	66.7	72.5	83.4	78.6	70.8	74.9
Hispanic	66.4	64.9	70.7	81.3	76.8	70.7	70.6
Black	60.5	65.0	65.0	80.0	76.6	72.1	73.3
White	68.2	69.8	69.7	80.0	74.7	60.3	67.1
American Indian a	and						
Native Alaskan	65.2	67.4	63.5	76.7	68.5	63.3	62.1
SES QUARTILE							
Lowest Quartile	64.3	67.9	67.1	78.8	74.0	66.8	68.9
25-49%	65.5	69.5	68.0	79.0	74.3	62.3	66.8
50-74%	67.0	68.4	68.6	80.0	75.2	61.0	67.1
Highest Quartile	71.5	68.7	72.7 ,	83.0	77.4	63.0	70.9
GRADES							
Lowest Cuartile	57.1	63.1	60.6	71.9	66.7	56.4	58.3
25-49%	64.4	68.2	67.2	79.2	72.7	61.9	66.1
50-74%	70.2	69.9	71.9	82.8	77. 0	64.6	70.8
Highest Quartile	75.2	72.6	75.6	86.2	83.0	68.9	77.0
SCHOOL DAYS MISSED							
None	70.4	71.8	71.4	83.1	78.0	64.7	71.5
1 or 2 Days	66.3	68.1	69.4	80.0	74.5	63.1	68.0
3 or more Days	61.6	63.5	64.5	75.1	70.8	59.5	62.6
TIMES LATE FOR SCHO	COL						
None	70.3	71.7	72.4	82.9	77.8	64.2	71.4
1 or 2 Days	64.7	66.4	66.9	78.9	73.2	62.7	65.5
3 or more Days	55.5	58.2	57.4	69.9	66.1	57.6	58.3
SCHOOL TYPE							
Public	65.6	68.1	68.9	79.6	73.9	62.3	67.5
Catholic	75.4	70.5	69.4	82.9	83.0	66.9	73.3
Independent	85.9	77.3	77.2	92.7	89.6	79.1	80.2
Other Private	79.0	73.1	71.4	87.2	87.8	73.7	77.6



Fig. 2.5 Percentage of Eighth Graders in Low & High SES Groups Who Are Proficient in Advanced Mathematics, by Race

Race/Ethnicity

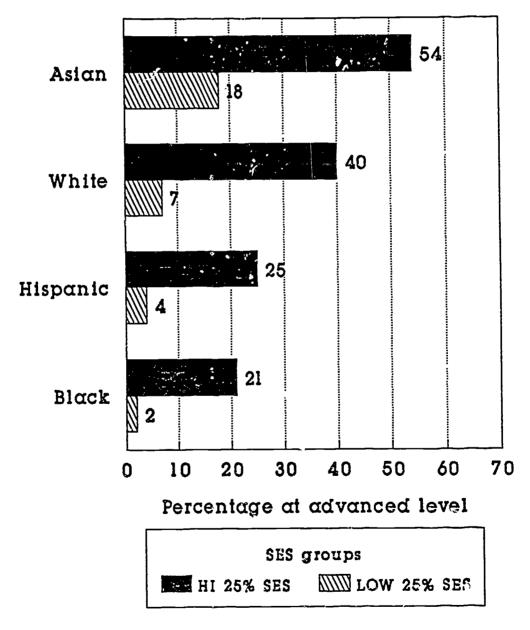




Fig 2.6 Percentage of Eighth Graders in Low & High SES Groups Who Fail to Show Basic Reading Skills, by Race

Race/Ethnicity

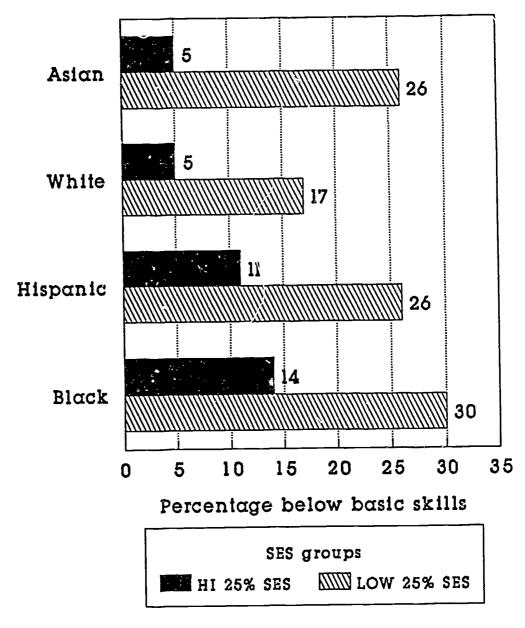




Table 2.9~-Percentages of eighth graders reporting various safety-related occurrences in their school, by selected background characteristics

Background Characteristics	I Fought with a student	Something was Stolen from me	Someone Offered to Soll me Drugs	Someone Threatened to Hurt me	I Don't Feel Safe at School
ToiAL	22.5	49.1	10.0	27.8	11.8
SEX					
Male	33.9	52.1	12.2	33.0	13.3
Female	11.3	46.1	7.9	22.7	10.4
RACE/ETHNICITY Asian and					
Pacific Islander	18.9	47.9	4.8	21.3	11.7
Hispanic	25.3	49.1	14.3	23.0	16.1
Black	30.3	57.5	7.6	24.9	18.0
W hite	20.5	47.6	9.9	29.3	9.9
American Indian					
and Native Alaskan	36.6	52.1	16.4	24.4	18.0
SES QUARTILE		. •			
Lowest Quartile	30.7	50.9	11.8	28.2	15.3
25 - 49%	23.8	50.7	10.1	29.4	13.4
50 - 75%	20.3	48.7	50.4	27.6	10.9
Highest Quartile	15.6	46.3	7.7	25.9	7.9
SCHOOL TYPE .					
Public	23.2	50.2	11.0	29.2	12.5
Catholic	18.4	41.0 ·	2.6	17.3	7.6
Independent Private	16.2	51.7	6.6	18.9	5.7
Other Private	16.4	38.2	2.4	18.7	5.9
URBANICITY					
Urban	24.7	51.8	10.4	27.0	15.3
Suburban	21.3	47.0	10.3	27.2	10.7
Rural	22.5	49.9	9.4	29.2	10.7



- 3. The wider context: time spent outside of school.
- Figure 3.1: Average hours per week spent on various activities
- Table 3.1: Avg. number of hours spent per week on various activities
- Figure 3.2: Hour per week spent on various activities by school sector (control)
- Table 3.3: Percentage of eighth graders spending various numbers of hours after school each day at home with no adult present



Figure 3.1 Average Hours Per Week Spent on Various Activities

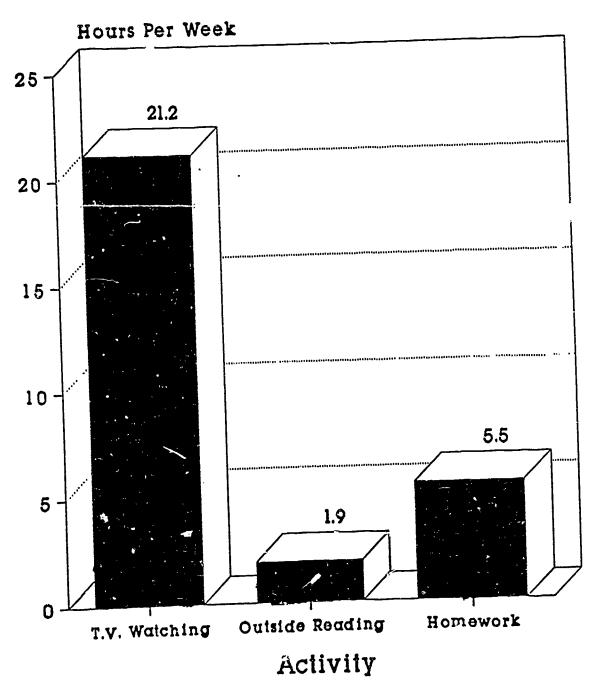




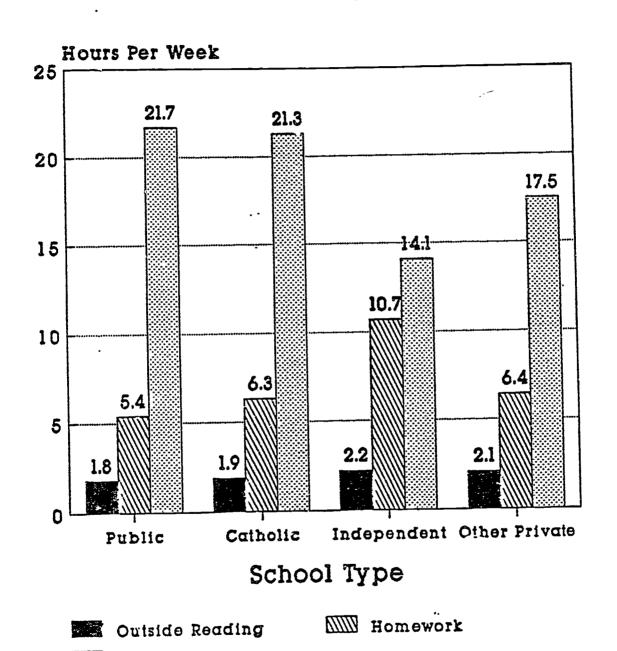
Table 3.1.--Average number of hours spent per week on outside reading, homework, and television watching, by selected background characteristics.

Student	Average Hours Spent Per Week							
Characteristics	Outside Reading	Home- Work	TV Total					
TUTAL	1.8	5.6	21.4					
SEX								
Male	1.5	5.4	22.3					
Female	2.1	5.7	21.2					
RACE/ETHNICITY Asian and								
Pacific Islander	1.9	6.7	21.4					
Hispanic	1.6	4.7	22.6					
Black	1.6	5.2	27.6					
White American Indian and	1.9	5.7	20.8					
Native Alaskan	1.7	4.7	23.3					

SCURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988: Base Year Student Survey".



Figure 3.2 Hours Per Week Spent on Various Activities By School Type



T.V. Viewing



Table 3.3.--Percentage of eighth graders spending various numbers of hours after school each day at home with no adult present, by selected background characteristics

•		Nur	mber of Hou	rs	
Background Characteristics	None Never Happens	Less Than One Hour	1 - 2 Hours	2 - 3 Hours	More Than 3 Hours
TOTAL -	13.3	32.4	27.8	12.9	13.0
RACE/ETHNICITY					
Asian and	16.7	29.0	25.8	12.6	15.9
Pacific Islander Hispanic	20.7	29.0	22.8	11.2	16.3
Black	16.2	28.1	23.2	12.8	19.5
White	11.5	33.8	29.5	13.1	12.0
American Indian/					
Native Alaskan	16.0	30.8	21.1	13.3	18.8
SES QUARTILE		•			
Lowest Quartile	18.6	31.5	22.9	9.9	17.2
25-49%	13.6	32.1	27.2	13.0	14.2
50-74%	11.0	29.9	29.6	15.6	14.0
Highest Quartile	10.3	36.2	31.3	13.0	9.3
SCHOOL TYPE	•				
Public	13.0	32.1	27.9	13.0	14.0
Catholic	13.4	34.0	26.4	13.9	12.3
Independent	15.3	36.7	30.5	9.7	7.9
Other Private	20.1	34.6	27.8	8.7	8.8

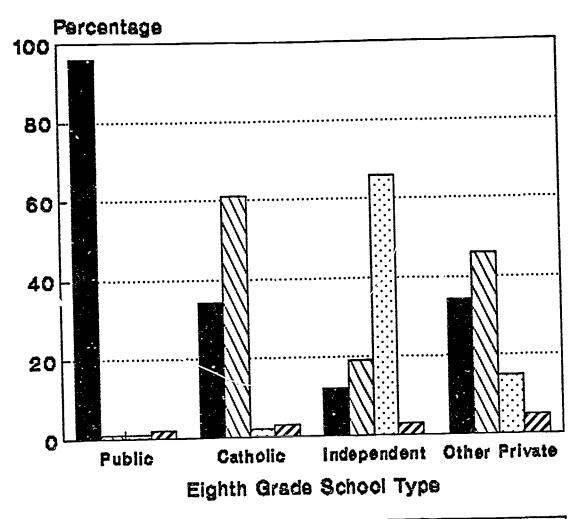
SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988: Base Year Student Survey".



- 4. The future: the transition to high school-aspirations and choices.
- Figure 4.1: Percentage of NELS:88 eighth graders planning to attend different high school sectors (source of control) by eighth grade school sector
- Table 4.2: Percentage of NELS:88 eighth graders planning to attend various types of high schools, by selected background characteristics
- Figure 4.2: Percentage of NELS:88 eighth graders planning to enroll in various high school programs
- Table 4.3: Percentage planning to enroll in various high school programs by background characteristics
- Table 4.5: Percentage of NELS:88 eighth graders who never discussed various high school programs with various adults
- Table 4.6: Percentage of students aspiring to various occupations by student characteristics
- Table 4.7: Percentage of students aspiring to various education levels by student characteristics
- Figure 4.3: Percentage of NELS:88 eighth graders with educational problems, by number of risk factors



Fig. 4.1 Percentage of Eighth Graders
Planning to Attend High School Types,
by Eighth Grade School Type



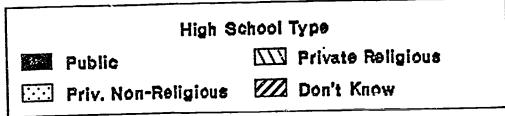




Table 4.2.--Percentage of eighth graders planning to attend various types of high schools by selected background characteristics

		High	School Choice	
School Characteristics	Public	Private Religious	Private Non-Religious	Don't Know
TOTAL	88.1	7.5	1.8	2.5
RACE/ETHNICITY				
Asian and				
Pacific Islanders	80.7	12.0	3.5	
Hispanic	87.8	7.2	0.9	3.7 4.1
Black	90.0	4.1	1.5	4.5
White	88.4	8.1	1.9	4.5 1.7
American Indian and			147	1.7
Native Alaskans	84.5	5.3	2.2	8.0
PARENTS' EDUCATION				
Did Not Finish				
High School	93.6	1.6	0.3	
High School Graduate	91.3	5.0	0.3 0.7	4.5
High School Plus	,,,,,	3.0	0.7	2.8
Some College	90.4	6.6	1.0	2.4
College Graduate	81.8	12.8	3.5	2.1 1.9
Graduate Degree	81.9	12.5	4.3	1.4
		V	4.5	1.4
SES QUARTILE			•	
Lowest Quartile	93.2	2.2	0.5	4.1
25-49%	92.0	5.2	0.7	2.1
50-74%	87.9	8.8	1.3	2.1
Highest Quartile	79.5	13.9	4.8	1.8

SCURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988: Base Year Student Survey".



Figure 4.2 Percentage of Eighth Graders
Planning to Enroll in Various High
School Programs

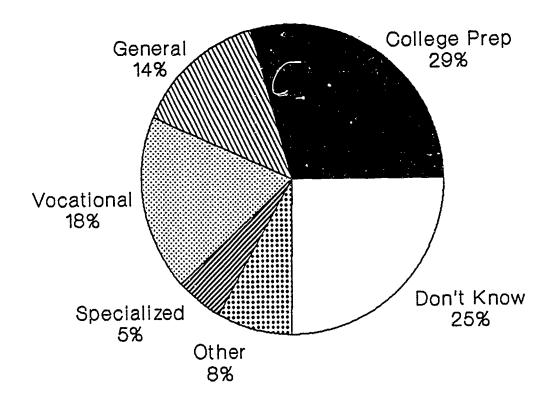




Table 4.3.--Percentage of eighth graders planning to enroll in various high school programs by selected background characteristics

•		H	ligh School P	rograms		
Student Characteristics	College Preparatory Academic	Vocational Technical Business	General High School Program	Specialized Program	Other .	Don't Knox
TOTAL	29.2	18.0	14.3	5.4	8.1	25.1
SEX						
Male	28.8	19.6	14.0	4.3	8.5	24.8
Female	29.6	16.4	14.5	6.5	7.6	25.4
RACE/ETHNICITY Asian and						
Pacific Islander	37.1	17.6	9.7	4.0	6.9	24.6
Hispanic	22.5	22.3	10.6	5.3	10.4	29.0
Black	24.7	25.9	9.7	5.6	10.7	23.1
White	30.9	15.9	16.0	5.5	7.2	24.6
American Indian and						
Native Alaskan	17.2	22.8	9.6	7.2	8.7	34.6
SES QUARTILE						
Lowest Quartile	17.4	23.4	13.5	4.7	9.9	31.2
25-49%	25.1	20.7	14.0	4.6	9.0	26.7
50-74%	31.1	16.9	14.7	6.1	8.2	22.9
Kighest Quartile	43.0	11.1	14.8	6.3	5.2	19.6
GRADES						
Lowest Quartile	11.3	21.8	16.7	5.8	9.9	34.6
25-49%	19.7	21.9	15.8	6.9	9.9	26.8
50-74%	30.1	17.6	14.6	6.0	8.3	23.4
Highest Quartile	51.9	11.9	10.6	4.3	4.8	16.6
TEST QUARTILE						
Lowest Quartile	12.6	23.5	12.8	4.9	11.9	34.2
25-49%	. 19.8	22.2	15.0	5.8	10.0	27.2
50-74%	31.0	16.9	15.1	6.3	7.2	25.6
Highest Quartile	52.4	9.6	13.4	4.9	3.6	16.1
SELF CONCEPT QUARTILE						
Lowest Quartile	19.9	18.4	15.0	5.7	9.3	31.8
25-49%	26.0	17.3	15.6	5.7	7.5	27.9
50-74%	29.1	18.5	14.8	5.3	7.7	24.5
Highest Quartile	38.6	18.0	11.9	5.1	8.0	18.3

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988: Base Year Student Survey".



Table 4.5.--Percentage of eighth graders who never discussed various high school programs with various adults, by expected high school program

	Never Discussed with								
Expedited High School Program.	Nother -	Father	Teacher	Counselor					
TOTAL	11.0	26.0	53.5	64.1					
College Preparatory	4.9	16.3	40.9	54.9					
Vocational, Technical Business Career	9.3	24.5	54.4	63.8					
General High School	11.6	26.9	56.5	63.0					
Specialized Programs	9.1	27.4	51.0	63.0					
Other	11.8	27.8	54.7	68.1					
Don't Know	19.2	37.3	66.4	75.0					

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988: Base Year Student Survey".



Table 4.6. -- Percentage of eighth graders aspiring to various occupations by selected student characteristics.

	Occupations Occupations										_			
Student Characteristics	Crafts- person or Operator	Farm or Farm Manager	Housewife Homemaker	or Farm	Military, Police or Security	Professional Business, or Managerial	lofa	Tech- nical	Salesperson Clerical or Office work	70	Service Worker	Other	Won't Be Working	D≈1*t Know
TOTAL	4.2	1.0	2.3	0.6	9:6	28.7	6.2	6.2	2.8	5.9	4.9	17.0	Ŏ.Ź	10.5
SEX:						•								
Male	7.6	1.7	0.2	1.0	14.9	19.6	6.8	8.3	1.2	8.5	2.1	17.6	0.3	10.4
male Female	.9	0.3	4.4	0.1	4.3	37.6	5.6	4.2	4.5	3.3	7.7	16.5	0.1	10.6
RACE/ETHNICITY														
Asian and														
Pacific Islander	3.6	8۔0	1.1	0.7	7.0	34.9	6.4	7.6	2.3	9.7	2.3	13.4	0.0	10.5
Hispanic	5.3	0.6	2.9	0.8	11.0	26.0	5.7	7.3	3.8	4.8	3.9	15.1	0.3	12.5
Black	3.2	0.1	0.9	0.6	11.5	29.4	5.8	8.0	2.9	4.2	6.4	16.3	0.4	10.4
White	4.3	1.2	2.5	0.5	9.0	28.7	6.3	5.7	2.7	6.1	4.9	17.7	0.2	10.2
American Indian and			-											
Rative Alaskan	6.6	0.3	3.1	0.2	17.0	23.0	5.7	6.5	2.3	6.4	3.4	11.9	0.1	13.5
PARENT EDUCATION:														
Did Not Finish													_ =	~=
High School	7.2	1.0	3.8	1.0	11.5	19.8	5.4	6.8	4.7	2.4	7.3	13.7	0.5	15.1
High School Graduate	6.3	1.3	2.6	1.0	11.4	22.1	5.8	6.0	3.4	3.6	6.6	17.3	0.2	12.5
Some Cotlege	4.3	1.1	2.0	0.5	10.3	27.7	6.1	6.8	2.9	5.4	4.9	17.8	0.1	10.1
College Graduate	1.9	0.8	1.7	0.2	6.6	33.2	7.4	6.0	1.9	9.2	2.8	17.1	0.2	8.7
Higher Level After														
College	0.8	0.5	2.2	0.3	5.9	43.0	6.0	4.4	1.5	10.2	2,6	16.5	0.2	6.0
HIGH SCHOOL														
PROGRAM PLANS:														
College Preparatory,														
Academic	1.5	0.6	1.2	0.3	0.1	41.7	5.3	6.6	1.9	12.0	2.5	13.6	0.1	4.7
Vocational, Technical,											_	_		
Business Career	7.5	1.4	1.5	0.7	9.0	29.3	8.9	10.6	5.3	3.2	5.5	10.3	0.2	5.8
General High School		- -												
Program	4.8	1.0	4.4	0.9	10.1	26.1	6.7	4.4	3.1	3.4	5.9	17.4	0.4	11.4
Specialized High	3.1	0.4	2.6	0.5	8.6	17.9	7.9	5.1	1.1	2.6	5.6	39.0	0.3	5.3
Other	5.5	1.2	2.5	0.5	14.1	19.4	3.9	5.4	1.3	3.6	6.9	30.2	0.2	5.4
Don't Know	4.5	1.3	2.9	0.6	9.6		5.3	4.2	3.0	3.3	5.9	16.2	0.3	23.0

SOURCE: U.S. Department of Education, National Center for Education Statistics, Mactional Education Longitudinal Study of 1988:

Base Year Student Survey".

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Table 4.7.--Percentage of eighth graders aspiring to various education levels by selected student characteristics

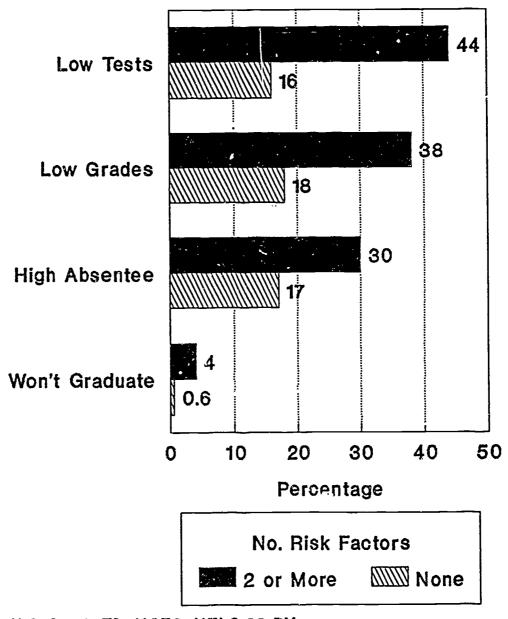
			ducation Level	ls			
•	Won't	will	Vocational,	will	Will	Will Attend	
Student	Finish	Finish	Trade, Busi-	Attend	Finish	Graduate	
Characteristics	High School	High School	ness After	College	College	School	
TUTAL	1.5	10.5	9.4	13.1	42.8	22.7	
SEX							
Kala	1.8	12.1	10.1	13.3	42.5	20.2	
Female	1.1	9.0	8.7	13.0	43.1	25.2	
ACE/ETHNICETY							
Asiun and							
Parific Islander	1.5	5.8	4.9	12.1	37.4	38.2	
Hispanic	2.6	14.8	10.7	17.1	33.2	21.5	
Black	1.4	8.2	10.2	16.3	39.4	24.5	
White	1.3	10.4	9.2	11.9	45.2	21.9	
American Indian and		10.4	7.4	11.7	73.6	21.7	
vative Alaskan	3.2	16.0	13.8	16.5	33.9	16.7	
SES QUARTILE							
Lowest Guartile	3.5	21.8	14.7	17.0	30.5	12.5	
25 - 49%	1.4	12.6	12.0	15.0	42.5	16.5	
50 - 74%	0.7	6.2	8.0	14.5	48.1	22.6	
Righest Quartile	0.4	1.7	3.0	6.1	50.0	38.9	
GRADES							
Lowest Quartile	4.0	23.5	15.5	18.0	29.9	9.2	
25 - 49%	1.0	11.3	11.5	17.2	43.2	15.7	
50 - 74%	0.6	6.1	`8.0	12.6	50.6	22.2	
Highest Guartile	0.2	2.2	3.6	5.9	47.6	40.6	
EST QUARTILE							
Lowest Quartile	3.9	21.1	14.7	18.5	29.2	12.7	
25 - 49%	1.2	13.1	11.8	16.5	43.1	14.3	
50 - 744	0.4	6.2	8.0	12.2	49.9	23.3	
Righest Cuartile	0.2	1.3	3.3	5.3	48.9	40.9	
XPECTED H.S. PROGRAM							
College Preparatory	0.4	1.8	2.4	8.0	46.4	41.0	
Voc./Tech./Bus.	1.4	9.9	24.6	12.7	36.1	15.4	
General	1.5	15.7	8.9	14.9	44.8	14.3	
Specialized	0.8	9.0	7.3	13.7	49.0	20.3	
Other	1.9	11.0	7.6	15.2	44.6	19.7	
Don't Know	2.5	18.2	8.1	17.4	40.9	12.9	

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988: Base Year Student Survey".



Figure 4.3 Percentage of Eighth Graders with Various Educational Problems, by Number of Risk Factors

Educational Problems





III. Postscript: The longitudinal dimension: issues for the next wave

The base year survey provides a rich cross-sectional database but it is of course only with the addition of data from the first follow-up (1990) wave of NELS:88 that longitudinal analyses can begin. At that time as well, cross-cohort comparisons can begin to be made to the High School and Beyond sophomores, while with the second follow-up in 1992, NELS:88 data can be used in trend analyses with the HS&B senior cohort and NLS-72.

The base year data, when conjoined with the data gathered in the first follow-up, can help to address a number of major educational policy issues. For example, researchers will be able to investigate the transition patterns from eighth grade to secondary school. Since most students will change school (moving from middle or junior high school to high school), and many will move across sectors (that is, between private and public schools), the effects of different transition patterns on the educational experience of tenth graders can be examined in detail.

Another major policy issue that can be addressed in later longitudinal analyses is the dynamics of ability grouping as it affects the educational experiences and achievements of students as they move from eighth grade to high school. By collecting data during the base year that 1) attempts to determine levels and types of ability grouping, and 2) documents the roles of students, teachers, administrators and parents in this process, researchers will be able to study the effects of earlier tracking decisions on the educational experiences of tenth graders.

NELS:88 data will help also to learn more about the determinants of persistence in and the completion of the eighth through tenth grades. High School and Beyond supplied excellent longitudinal data on later dropouts (those who drop out after grade ten). NELS:88, however, will provide data on both early and late dropouts, including those 1988 eighth graders who drop out before reaching grade ten.

School, teacher, student and dropout data is currently being collected for the NELS:88 first follow-up, and is expected to become available approximately one year from now.



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Appendices

- APPENDIX 1: SAMPLE FRESHENING: GENERATING A NATIONALLY REPRESENTATIVE SAMPLE OF SPRING 1990 SOPHOMORES FROM THE NELS:88 EIGHTH GRADE COHORT 1988 SAMPLE.
- APPENDIX 2: NELS:88 BASE YEAR KEY QUESTIONNAIRE ITEMS RELATED TO SELECTED-THEMES IN CURRENT EDUCATIONAL POLICY RESEARCH.



APPENDIX 1: SAMPLE FRESHENING: GENERATING A NATIONALLY REPRESENTATIVE SAMPLE OF SPRING 1990 SOPHOMORES FROM THE NELS:88 EIGHTH GRADE COHORT 1988 SAMPLE.

The following four-step freshening procedure was developed by NORC's Martin R. Frankel to ensure that a valid probability sample of all students enrolled in the tenth grade in 1990 (and a valid probability sample of all students enrolled in the twelfth grade in 1992) can be achieved. The procedure may be summarized step-by-step as follows:

- l. For each school that contained at least one base year tenth grade student selected for interview in 1990, a complete alphabetical roster of all tenth grade students will be octained.
- 2. An examination is made of the student immediately following (alphabetically) the selected base year student. If the base year student is the last on the roster, the examination is undertaken for the first student on the roster (that is, the roster is circularized).
- 3. If the student designated for examination was enrolled in the eighth grade in the United States in 1988, then the process terminates. If the student designated for examination was not enrolled in eighth grade in the United States in 1988, then the student is selected as part of the freshened sample.
- 4. If a student was added to the freshened sample in step 3, the next student listed on the roster is selected for examination and step 3 is repeated. The step 3 and 4 sequence is repeated (students are added to the sample) until a student who was in the eighth grade in the United States in 1988 is reached on the roster.

Given that each student who is in the tenth grade should appear on a tenth grade roster, this method will generate a probability sample of students who are currently enrolled in the tenth grade but who were not enrolled in the eighth grade in the United States in 1988. Assuming an alphabetical tenth grade roster, with explicit circularization at its endpoints, the procedure explicitly links each tenth grade student not in the eighth grade in 1988 with the first earlier (reverse alphabetical order) student who was in the eighth grade in 1988. Since each tenth grade student who was not in the eighth grade in 1988 is automatically selected if we selected the linked tenth grade student who was in the eighth grade in 1988, then each student in this (former) population has a known, non-zero probability of selection. Thus we ave a probability sample of the elements (students) of this population and have obtained a "freshening" sample to add to the NELS:88 eight grade cohort sample members who have been followed in 1990.

A similar freshening procedure will be used in the NELS:88 second followup (1992), when most sample members are seniors and a representative national sample of high school seniors is to be realized.



NELS:88 base year key questionnaire items related to current educational policy in school research

I. Social capital/Parent involvement/ Community involvement			п.	Equity	Access/Choice	III. School effectiveness				
ISSUES Active parental involvement, school policies and environment related to parental involvement, parental choice in school, parental networks and interactions.		ISSUES Academic programs/school climate/admissions practices/PSE accest/SES and ethnicity/junior high access/equal teaching quality and practices/A.P. and honors courses/remedial classes/student choices				ISSUES Influence of size and school on outcomes, student body ethnicity and SES level effect on outcomes, effect of school type and affiliation on outcomes, school climate effect on outcomes, staff and curriculum effect on outcomes				
STU	DENT		STU	DENT		STUDENT				
S	34	Education level of parents	S	20	Language use	Cog	nitive test	t scores		
S	37	Parent participation at school	S S S	31 57-59 66 68	A-D Race, ethnicity School climate Advanced courses Gifted/talented programs	S	81	Self-reported grades		
SCH	IOOL		SCH	OOL		SCE	IOOL			
SCH	[37	Student test results provided to families	SCH	4	Туре		I 2	School enrollment		
SCH	[45	Available extracurricular activities	SCH	5	Major program orientation	SCE	I 6	Length of school year		
SCH	[47	School climate/school policy	SCH	13	Ethnicity	SCE	I 10	Nominated tenth grade		
		enforcement	SCH	14	Percentage of students in single-parent	SCE	[11	Average daily attendance		
					homes	SCE	I 12	Dropout/migration rate		
			SCH	15	Percentage of students LEP		I 17	Number of full-time teachers		
					(Limited English Proficiency)		[18	School structure for instruction		
			SCH		Remedial and special programs		[19	Teacher base salary		
			SCH		Assignment of students to the school		[21	Teacher degree level		
				25-28	Admission procedures		I 38	Retention reasons		
			SCH		Percentage of students with financial aid		45	Bilingual classes		
			SCH		Family ability to pay for tuition		[47	School climate		
			SCH	33	Eighth grade scores used for		[48	School policies		
			COTT	20	high school admission	SCH	[49	Discipline and other problems		
			SCH		Minimum academic instruction required					
			SCH	40"	Gifted/talented program					



NELS:88 base year key questionnaire items related to current educational policy in school research--Continued

I.	Social capital/Parent involvement/ Community involvement		II. Equity/Access/Choice			ш.	School effectiveness		
PAR	ENT		PAR	ENT		PAR	ENT		
P	30	Parent education level	P	10	Race, ethnicity	P	34,80	SES level	
P	45	Parent request to retain	Þ	34,80	SES level	P	57	School contact with parent	
		child in school	P	38	Child's attendance at preschool	P	74	Parent opinion of school's	
P	54, 56	Parent involvement in course selections	P	48	Child's participation in special programs			effectiveness	
P	57	School contact with parent about child	P	52	Child in gifted/talented program	P	75	Parent satisfaction with school curriculum	
P	58	Parent contact with school	P	70	Computer in home that child uses	P	76	Parent opinion of child's schooling	
		about child's performance	P	82	Money available for educational expenses			future	
P	59	Parent participation in	P	84	How much money earmarked for student's				
		school organizations			postsecondary education				
P	61	Outside community activities with child	P	22	Language spoken in the home				
P	62	Parent knowledge of child's friends and their parents							
P	63	Nonschool activities of child							
P	66	Parent time talking with child about school							
P	67	Talk with child about high school plans							
P	68	Talk with child about postsecondary							
,	~	plans							
ß	69	Parent time helping child with homework							
P	85	Parent involvement with financial aid and schoiarships							



NELS:88 base year key questionnaire items related to current educational policy in school research--Continued

I.	Social capital/Parent involvement/ Community involvement		- · ·				School effectiveness		
TEA	CHER		TEA	CHER		TEA	CHER		
T.	III-26	Problem ; with school policies	T.	I-11	Teacher perception of student as a				
		as related to student,			language minority student	T.	I-(2-9)	Teacher rating of student's academic	
		community, and parent: illegal	T.	I-12	Teacher perception of student as			performance and participation in	
		drugs, weapons, assault,			Limited English Proficiency student			class	
		robbery, var.dalism, etc.	T.	II-16	Teaching practices in the classroom	T.	II- 3	Class size	
T.	III-30	Teacher time spent	T.	II-17, 29	Teaching methods for specific	T.	П-14	Teacher adequacy	
		communicating with parents			subjects used in the classroom	T.	III-8	Highest academic degree held	
T.	III-31	How many students' parents	T.	III-4	Years of teaching experience	T.	III-10	Major and minor fields of highest	
		does teacher talk to	T.	Ш-б	Type of teaching certificate			grade degree	
			T.	III-19	Amount of in service education in past year	T.	III-18	Employment status in the school system	
			T.	III-21	Instruct in gifted/talented program	T.	III-28	Number of days absent from teaching	
			T.	III-27	Holding a second job	T.	III-29	Number of supervisory visitations	
			T.	III-30	Time spent outside school hours on teacher activities such as planning classes, correcting papers, coordinating curriculum, etc.	Т.	III-33	How does teacher make use of microcomputer for student instruction	
			T.	III-32	Percentage of students using microcomputer for instructional material				

